Supplementary Table S1 : Mass transitions and conditions for negative electrospray ionization HPLC-MS/MS analysis of phytoprostane-F_1 and of the hydroxy fatty acids issued from the oxidation of linoleic (18:2) and linolenic (18:3) acids.

Lipids were analysed with a Waters Micromass Quatro Premier triple quatrupole mass spectrometer (Milford, MA, USA) in the negative ESI mode with a capillary voltage of 3 kV. The source was set at 120℃ and N_2 was used as desolvation gas with a flow of 800L/h at 350℃. Argon was used for collision-induced dissociation (flow rate of 0.3 mL/min, 3 x 10^{-3} mBar) The cone voltage and collision energy were optimized for all compounds and selected mass transitions were monitored. For HFA analyses, response factors were determined by injection of a mixture of HFA, obtained by methylene blue catalysed photo-oxidation of free 18:3 (18:2), with a composition determined both by HPLC-UV and full scan HPLC-MS. See Supplementary Figure 1 and text footnotes for abbreviations; PPF_1, phytoprostane-F_1 (22).

Compound	Precursor ion (*m/z*)	Product ion (*m/z*)	Cone voltage (V)	Collision energy (eV)
PPF_1-I	327	225	41	26
PPF_1-II	327	171	41	26
$^{18}O_3$-PPF_1-I	333	227	41	26
$^{18}O_3$-PPF_1-II	333	173	41	26
9-HODE	295	123	26	20
9-HODE	295	171	26	20
10-HODE	295	155	26	20
10/12-HODE	295	183	26	20
12-HODE	295	211	26	20
13-HODE	295	195	26	20
13-HODE	295	225	26	20
$^{18}O_2$-13-HODE	299	199	26	20
$^{18}O_2$-13-HODE	299	229	26	20
9-HOTE	293	121	26	20
9-HOTE	293	171	26	20
10-HOTE	293	155	26	20
10/12-HOTE	293	183	26	20
12-HOTE	293	211	26	20
13-HOTE	293	195	26	20
13/15-HOTE	293	223	26	20
16-HOTE	293	235	26	20
$^{18}O_2$-13-HOTE	297	223	26	20
$^{18}O_2$-13-HOTE	297	227	26	20
15-HEDE	323	113	26	20
15-HEDE	323	223	26	20